M2N68-VM

The Best Cost Performance Ratio of HD multimedia Motherboard

- AMD® AM2/AM2+ CPU Support up to 140W
- Dual-Channel DDR2 -1066/800/667
- 5000 hrs VRM solid capacitor
- Supports HDMI Technology
- Supports Playback of HD DVD and Blu-ray Discs with HDCP compliant
- Support Dual-VGA output：DVI & RGB
- Instant Internet Access with Express Gate™

Supports AMD Socket AM2+/AM2 for Phenom FX/Phenom/ Athlon 64 X2 / Athlon 64 FX / Athlon 64 / Sempron

The motherboard supports AMD socket AM2+/AM2 for Phenom FX/Phenom/Athlon 64/ Sempron/Athlon 64 X2/ Athlon 64 FX/ processors with 2MB / 1MB / 512KB L2 cache, which is based on 64-bit architecture.It features 2000 MT/s HyperTransport1.0 Bus, dual-channel un-buffered DDR2 1066 (AM2+) and DDR2 800 (AM2) memories support and AMD Cool ´n´ Quiet! Technology.

AMD Cool ´n´ Quiet! Technology

M3N78 supports AMD Cool ´n´ Quiet! Technology, which monitors system operation and automatically adjusts CPU voltage and frequency for a cool and quiet environment.

64-bit CPU support

64-bit computing, the technology to replace 32-bit architecture, delivers advanced system performance, faster memory access and increased productivity. This motherboard provides excellent compatibility and flexibility by supporting either 64-bit or 32-bit architecture.

NVIDIA® GeForce™ 7050PV+nForce™ 630a

The NVIDIA® GeForce™ 7050 GPU Northbridge supports Microsoft® DirectX 9.0 Shader Model 3.0, The NVIDIA® nForce™ 630a MCP delivers NVIDIA® Gigabit LAN, and NVIDIA® MediaShield storage management technology allowing easy RAID configuration (RAID 0, RAID 1,RAID10,RAID5) for Serial ATA 3Gb/s.

HDMI™ Interface

HDMI (High-Definition Multimedia Interface) is the industry-supported, uncompressed, all digital audio and video interface via a single cable and is HDCP compliant allowing playback of HD DVD, Blu-ray Disc and other protected content.

DVI Interface

DVI (Digital Visual Interface) provides high visual quality of digital display devices such as LCD monitor. The interface of this motherboard supports dual VGA output both DVI-D/HDMI and RGB.

NVIDIA® PureVideo™ HD Technology

PureVideo HD technology is the core of a complete Blu-ray or HD DVD movie solution, featuring hardware acceleration, post-processing, HDCP circuitry, and integration with leading HD movie software players.

Dual channel DDR2 1066

DDR2 1066 memory provides great performance for 3D graphics and other memory demanding applications on next generation memory technology.

PCI Express Architecture

PCI Express is the latest I/O interconnect technology that will replace the existing PCI. With a bus bandwidth 4 times higher than that of AGP 8X interface, PCI Express x16 bus performs much better in applications such as 3D gaming.

Serial ATA 3Gb/s

This motherboard supports next-generation SATA hard drives based on the new SATA 3Gb/s storage specification, allowing RAID 0, RAID 1,RAID 0+1,RAID 5 and JBOD configurations for five SATA connectors.

SATA on the Go

This motherboard supports the next-generation hard drives based on the Serial ATA (SATA) 3Gb/s storage specification, delivering enhanced scalability and doubling the bus bandwidth for high-speed data retrieval and saves. The external SATA port located at the back I/O provides smart setup and hot-plug functions. Easily backup photos, videos and other entertainment contents on external devices.

Gigabit LAN

The on-board LAN controller is a highly integrated GbLAN controller. It is enhanced with an ACPI management function to provide efficient power management for advanced operating systems.

High Definition Audio

Enjoy high-end sound system on your PC! The onboard 8-channel HD audio (High Definition Audio, previously codenamed Azalia) CODEC enables high-quality 192KHz/24-bit audio output, jack-sensing feature, retasking functions and multi-streaming technology that simultaneously sends different audio streams to different destinations. You can now talk to your partners on the headphone while playing a multi-channel network games. All of these are done on one computer.

Max. 12 USB 2.0 ports

USB 2.0 is the latest connectivity standard for next generation components and peripherals. Backwards compatible with current USB 1.1 peripherals, USB 2.0 delivers transfer speeds up to 40 times faster at 480Mb/s, for easy connectivity and ultra-fast data transfers.

ASUS Express Gate

Surf the Internet in 5-second-boot time without entering Windows

With a fast bootup speed of only 5 seconds, the ASUS Express Gate offers an optional Linux OS bootup that allows you to enjoy instant access to commonly used functions like accessing the Internet, VoIP, and Web emailing without entering the OS.

* The actual boot time is subject to hardware configurations and product models

ASUS Q-Fan

ASUS Q-Fan technology intelligently adjusts CPU fan speeds according to system loading to ensure quiet, cool and efficient operation.

ASUS CrashFree BIOS3

The ASUS CrashFree BIOS 3 allows users to restore corrupted BIOS data from a USB flash disk containing the BIOS file. This utility saves users the cost and hassle of buying a replacement BIOS chip.

C.P.R.(CPU Parameter Recall)

When the system hangs due to overclocking failure, there is no need to open the case to clear CMOS data. Just simply restart the system, the BIOS would show the previous setting and then users can amend the CPU setting again.

ASUS EZ Flash2

With ASUS EZ Flash, you can update BIOS before entering operating system. No more

DOS-based flash utility and bootable diskette required.

MyLogo2

Personalize your system with customizable boot logo You can convert your favorite photo into a 256-color boot logo for a more colorful and vivid image on your screen.

GreenASUS

The motherboard and its packaging comply with the European Union´s Restriction on the use of Hazardous Substances (RoHS). This is in line with the ASUS vision of creating environment-friendly and recyclable products and packaging to safeguard consumers´ health while minimizing the impact on the environment.

Back Panel I/O Ports

The product (electrical , electronic equipment, Mercury-containing button cell battery) should not be placed in municipal waste. Check local regulations for disposal of electronic products.

Specification

CPU	AMD Socket AM2+ / AM2 Processors Athlon64 / Athlon64 FX / Athlon64 X2 / Sempron / Phenom FX / Phenom AMD Cool 'n' Quiet™ Technology AMD64 architecture enables simultaneous 32-bit and 64-bit computing
Chipset	NVIDIA GeForce 7050PV/nForce 630a
System Bus	2000/1600 MT/s
Memory	4 x240-pin DIMM, Max. 8 GB, DDR2 1066/800/667/533 ECC,Non-ECC,Un-buffered Memory Dual Channel memory architecture
Expansion Slots	1 x PCIe x16 1 x PCIe x1 2 x PCI
VGA	Integrated Nvidia® Geforce®7Series Shader model3.0 DirectX 9 graphics processor Maximum shared memory of 256 MB Supports RGB with max. resolution 1920 x1440 (@70Mhz*32bpp/75Mhz*16bpp) Supports DVI-D with max. resolution 1920 x1200 (@60Mhz) Supports HDMI™ Technology with HDCP compliant with max. resolution 1920 x 1080p* *Due to the chipset limitation, only MPEG 2 & WMV Offload can support HD format 1920 x 1080p. *When playing HD DVD and Blu-ray disc the suggested system configuration above: DDR2 800 1GB*2 /Althon 64 X2 4400+/Graphic shared memory 256MB/Purevideo HD support. Dual VGA output support: RGB & DVI / RGB & HDMI * Due to the chipset limitation, simultaneous output for DVI and HDMI is not supported.
Storage	**Southbridge** 1 xUltraDMA 133/100 3 xSATA 3 Gb/s ports Support RAID 0,1,5,10,JBOD 1 x External Serial ATA 3.0 Gb/s (SATA On-the-Go) ATAPI support ,AHCI mode
LAN	PHY Gigabit LAN
Audio	VT1708B High Definition Audio 8 -Channel CODEC Supports Anti Pop Funtion and Vista Basic Supports S/PDIF out interface, Jack-detect and multi-streaming
USB	12 USB 2.0 ports (6 on back I/O, 6 on board)
ASUS Unique Features	ASUS Express Gate: 1. Access the Internet in 5-second* boot time without entering Windows 2. A built-in OS offers instant fun platform for Internet and Instant Messenger! 3. Friendly Picture Manager Interface * The actual boot time is subject to hardware configurations and product models. ASUS Quiet Thermal Solution: - ASUS Q-Fan ASUS EZ DIY: - ASUS CrashFree BIOS 3 - ASUS EZ Flash 2 Other: ASUS MyLogo 2
Overclocking Features	SFS (Stepless Frequency Selection) from 200MHz to 300MHz at 1MHz increment Adjustable CPU Voltage at 0.05V increment ASUS C.P.R.(CPU Parameter Recall)
	1 x PS/2 Keyboard 1 x HDMI 1 x DVI 1 x VGA

Back Panel I/O Ports	1 x RJ45 1 x S/PDIF Output 1 x External SATA 6 x USB 2.0/1.1 8-channel Audio I/O
Internal I/O Connectors	3 x USB 2.0 connector supports additional 6 USB 2.0 ports High Definition Front panel audio connector 1 x CD audio-in connector 1 x S/PDIF output connector 1 x Floppy disk drive connector 1 x IDE connector for two devices 1 x LPT connector 1 x COM CPU / Chassis/PWR Fan connectors Chassis Intrusion connector 24-pin EATX power connector 4-pin ATX 12V Power connector 1 x System Panel connector
BIOS	8 Mb Flash ROM DMI 2.0 AMI BIOS PnP WfM 2.0 SM BIOS 2.4
Manageability	WfM 2.0, DMI 2.0, WOR by Ring, PME Wake Up,WO_USB,WO_KB/MS
O/S Compatibility	Windows Vista Windows XP
Accessories	User's manual 1 x Serial ATA cable 1 x SATA power cable 1 x UltraDMA 133/100 cable 1 x I/O Shield * Note: The floppy disk drive cable is purchased separately
Support Disc	Drivers ASUS PC Probe II ASUS LiveUpdate Utility Anti-virus software(OEM version)
Form Factor	uATX Form Factor 9.6 inch x 9.6 inch (24.4 cm x 24.4 cm)

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- All specifications are subject to change without notice. Please check with your supplier for exact offers. Products may not be available in all markets.
- PCB color and bundled software versions are subject to change without notice.
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